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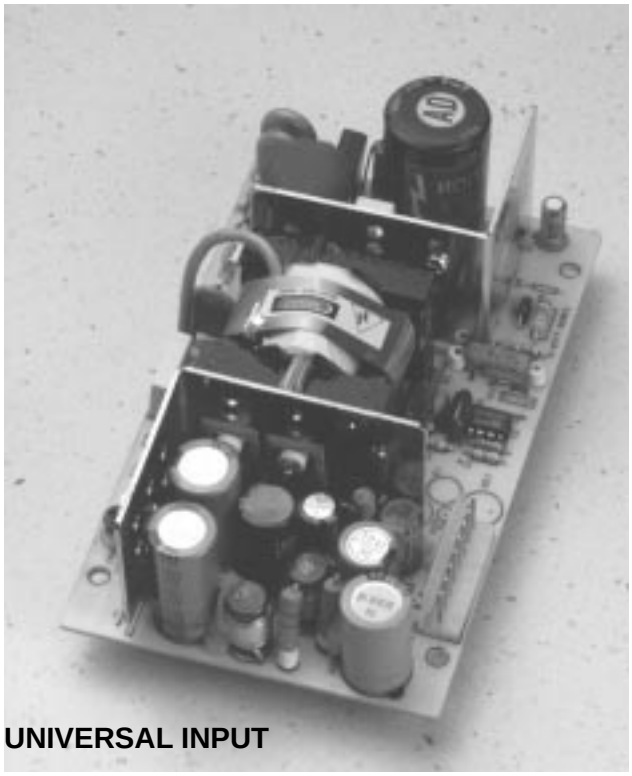


UNIVERSAL INPUT

SU65P SERIES
65 WATT MULTIPLE OUTPUT SWITCHING POWER SUPPLIES

Jameco Part Number 203377

FEATURES

- **85 to 264 VAC universal input**
- **3.5" x 6" x 1.77" compact size**
- **Built-in EMI filter, high efficiency**
- **100% burn-in**
- **Input surge current protection**
- **Overvoltage protection**
- **Overcurrent protection**
- **Open PCB, L-bracket or box**
- **UL/CSA/TUV approved & CE marked to LVD**

DESCRIPTION

Constructed on a compact 3.50 x 6.00 inch printed circuit board, the SU65P AC/DC switching power supply series yields great performance when delivering 65 watts of continuous output power. These units operate from 85 to 264 VAC input voltage without the need of jumper selection. Additionally, they are extremely trustworthy for today's CRTs, disk drive systems, small microprocessor based systems, portable equipments, and many other fields of applications. All models are certified by UL/CSA/TUV safety standards.

INPUT SPECIFICATIONS

Input voltage	85 to 264 VAC
Input frequency	47 to 63Hz
Input current	1.6A (rms) for 115 VAC 1.0A (rms) for 230 VAC
Leakage current:	0.47mA max.@110VAC, 60Hz 0.85mA max.@240VAC, 50Hz

OUTPUT SPECIFICATIONS

Output voltage/current	See output rating chart
Output power range	0 to 65 watts
Ripple and noise	1 % peak to peak max on all outputs
Overvoltage protection	Provided on output #1 only; set at 112-132% of its nominal output voltage
Overcurrent protection	Short circuit protection on all outputs
Temperature coefficient	±0.04%/˚C max on all outputs

GENERAL SPECIFICATIONS

Switching Frequency	32KHz +/- 5KHz
Efficiency	70% minimum on single output models with Vo ≥12V, 65% minimum on the others
Hold-up time	10 msec min at 110 VAC
Line regulation	±0.5% max at full load
Inrush current	15 amps @ 115 VAC or 30 amps @ 230 VAC at 25˚C cold start
Relative Humidity	5% to 95% non-condensing
Derating	Derate from 100% at +50˚C lineally to 50% at +70˚C
Withstand voltage	3000VAC from input to output 1500VAC from input to ground 500VAC from output to ground
Insulation resistance	10M ohm min, output to GND
Operating temperature	0˚C to +70˚C
Storage temperature	-40˚C to +85˚C
MTBF	100,000 hours min at full load at 25˚C ambient
EMI requirements	In compliance with FCC class B and CISPR 22 (EN 55022) Class B
Safety requirements	Meets or exceeds a) UL 1950 b) CSA C22.2 No.234 c) EN 60950/IEC 950
Construction	Open PCB, L-bracket or box
Dimension (L x W x H)	6.00 x 3.50 x 1.77 inches

E135662 LR81336 R9172041 (LVD)

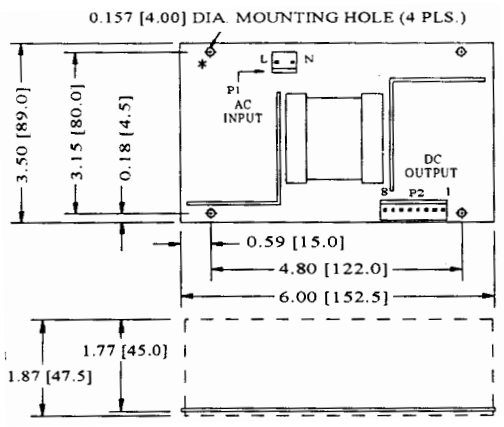
FORTRON/SOURCE

OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output #1 Vnom	Imin	Imax	Tol.	Output #2 Vnom	Imin	Imax	Tol.	Output#3 Vnom	Imin	Imax	Tol.	Output#4 Vnom	Imin	Imax	Tol.	Maximum Output Power
SU65P10	5V	0A	10A	2%		(N/A)				(N/A)				(N/A)			50W
SU65P12	12V	0A	5.5A	1%		(N/A)				(N/A)				(N/A)			65W
SU65P13	15V	0A	4.5A	1%		(N/A)				(N/A)				(N/A)			65W
SU65P14	24V	0A	3.0A	1%		(N/A)				(N/A)				(N/A)			65W
SU65P23	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%		(N/A)				(N/A)			65W
SU65P24	+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%		(N/A)				(N/A)			65W
SU65P25	+5V	1A	6.0A	3%	+24V	0.3A	2.0A	5%		(N/A)				(N/A)			65W
SU65P30	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-5V	0.1A	0.5A	10%		(N/A)			65W
SU65P31	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%		(N/A)			65W
SU65P32	+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%	-15V	0.1A	0.5A	10%		(N/A)			65W
SU65P33	+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%	-12V	0.1A	0.5A	10%		(N/A)			65W
SU65P35-1	+5V	1A	6.0A	3%	+24V	0.3A	1.2A	5%	-24V	0.2A	1.0A	10%		(N/A)			65W
SU65P39	+5V	1A	6.0A	3%	+24V	0.3A	2.0A	5%	-12V	0.1A	0.5A	10%		(N/A)			65W
SU65P40	+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%	-5V	0.1A	0.50A	10%	65W
SU65P45-1	+5V	1A	6.0A	3%	+15V	0.2A	1.0A	5%	-12V	0.1A	1.0A	10%	+25V	0.1A	0.75A	0%	65W

Notes: (1) All multiple output models may be operated at no-load without damage. At no-load, output voltage tolerance increases to 10%.
(2) Safety agency approvals are for the above listed models in PCB format. To order a model with a metallic L-bracket or box, add suffix "B" for L-bracket format or "C" for enclosed format to the model number e.g., SU65P25C.

MECHANICAL SPECIFICATIONS



NOTES:
1. Dimensions shown in inch [mm]
2. Tolerance 0.02 [0.5] maximum
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3081 and Molex 2878 series crimp terminal.
5. Weight: 380 grams (PCB format).
6. The " * " marked mounting hole is for system grounding through a metallic stand-off to the system chassis

PIN CHART

MODEL \ PIN2		1	2	3	4	5	6	7	8
SU65P10	SU65P12	OUTPUT	OUTPUT	OUTPUT	OUTPUT	RETURN	RETURN	RETURN	RETURN
SU65P13	SU65P14	#1	#1	#1	#1				
SU65P23	SU65P24	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT	N.C.	N.C.
SU65P25		#1	#1	RETURN	RETURN	#2	#2		
SU65P30	SU65P31	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT	OUTPUT	
SU65P32	SU65P33								N.C.
SU65P35-1	SU65P39	#1	#1	RETURN	RETURN	#2	#2	#3	
SU65P40	SU65P45-1	OUTPUT	OUTPUT	COMMON	COMMON	OUTPUT	OUTPUT	OUTPUT	OUTPUT
		#1	#1	RETURN	RETURN	#2	#2	#3	#4

FORTRON/SOURCE